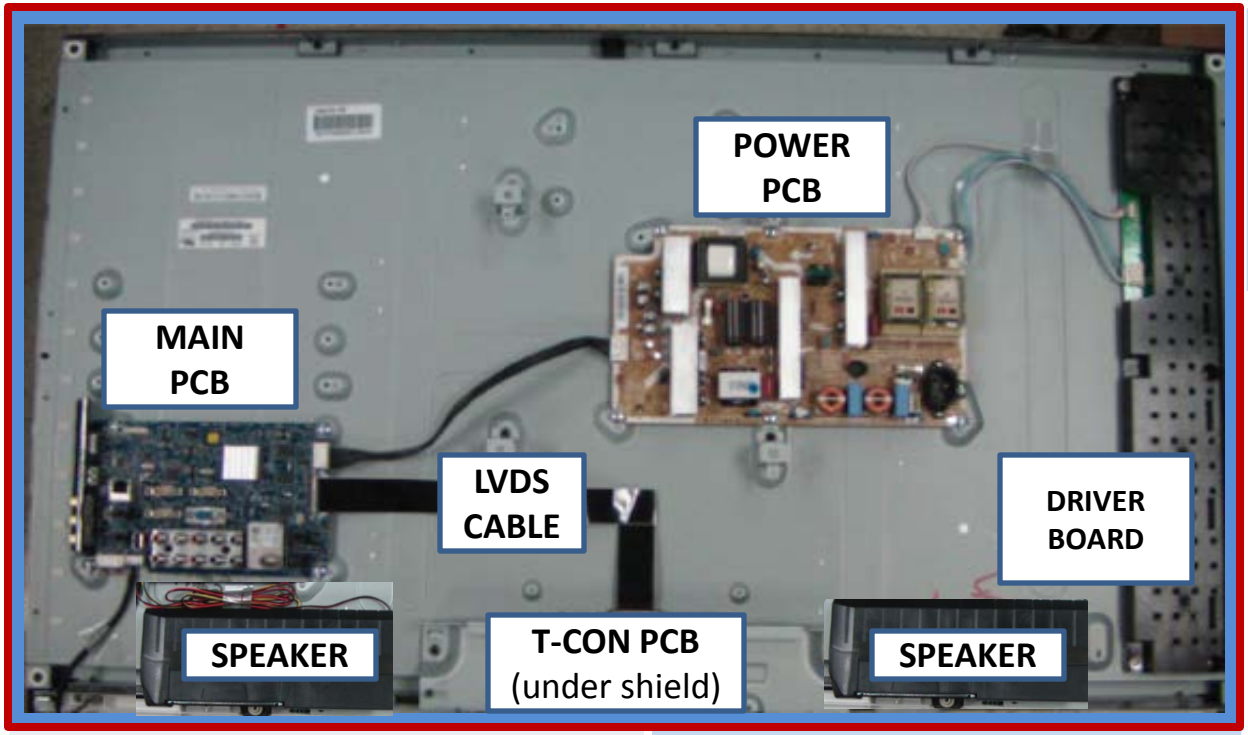


HELP : 1-888-751-4086; 1-866-894-0637 (FE)
GSPN
http://gspn3.samsungcsportal.com

PLUS ONE
http://my.plus1solutions.net/clientPortals/samsung

HOT TIPS

Power On Problems: (see **page 2**)
Video Problems: (see **pages 3,4)**
TIP: After replacing Main/Panel picture is upside down.
Fix: Test Mode/Mirror Option/Toggle

FIRMWARE

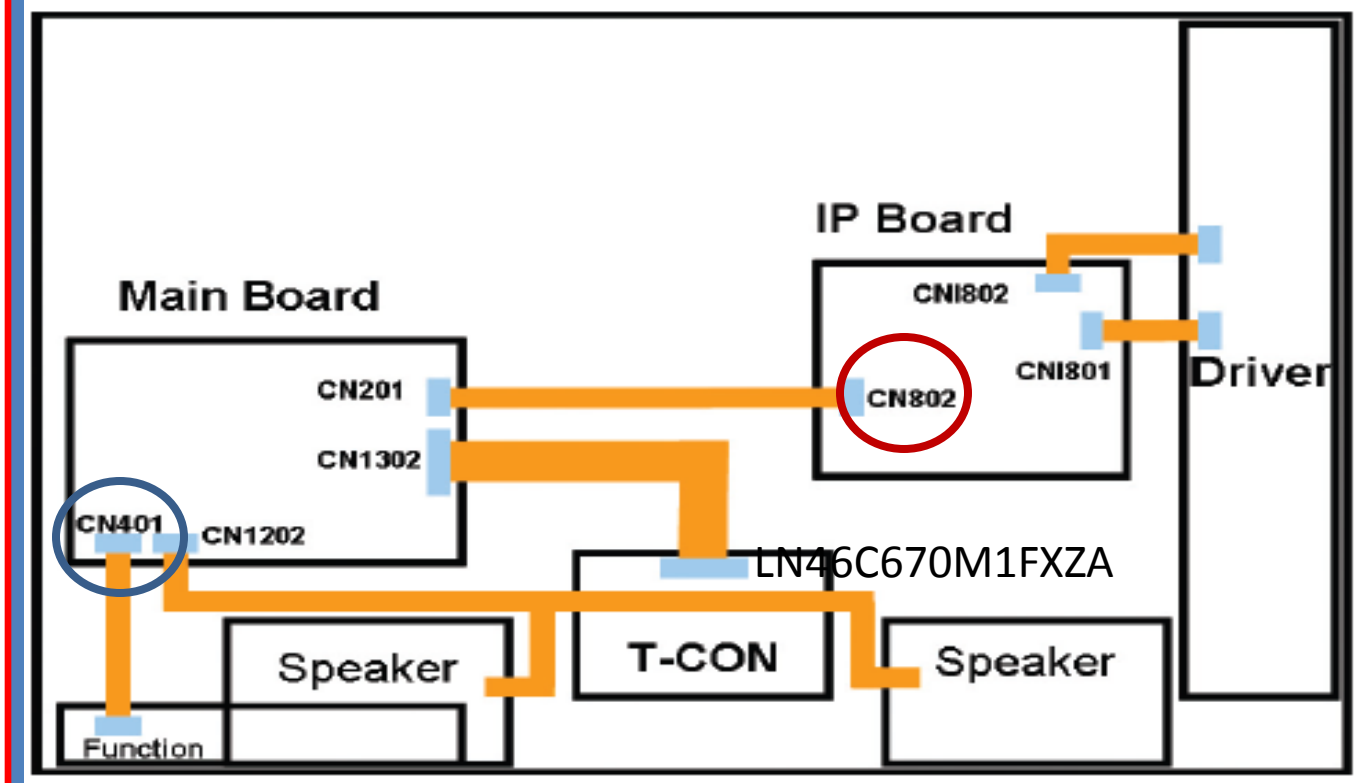
10/18/2010
Firmware for SX1 & X4 Model
-. Version : 1016.3 (SX1), 2006.0 (X4)
-. Folder Name: T-TDT5AUSC / T-MSX5AUSC
This firmware will prevent below problems
. Distorted picture on 70 Hz, 75 Hz
. Distorted picture on DTV PIP with 1080i mode

SERVICE BULLETINS

No current Bulletins for this model

Verify Part Number are Current

Version	Parts No	Short Description
ALL	BN44-00339A	Power PCB
ALL	BN96-13451B	Function & IR PCB
ALL	BN96-15659A	Main PCB
ALL	BN07-00828A	Panel
ALL	BN81-04409A	T-CON PCB
ALL	BN96-10689A	Stand Guide Neck
ALL	BN96-12766E	Rear Cover
ALL	BN96-12807A	Front Cover
ALL	BN96-12795C	Stand Guide
ALL	BN96-12762A	Stand Base
ALL	BN40-00195A	Tuner
ALL	BN96-12871B	Speaker
ALL	BN96-13171T	LVDS Cable
ALL	3903-000467	Power Cord
ALL	BN59-01041A	Remote
ALL	BN63-01798B	Cleaning Cloth



CN201

CN201(to Power board)			
1	B12V_PW	10	GND
2	A5V_PW	11	GND
3	B12V_PW	12	H_OUT
4	A5V_PW	13	B13V_PW
5	B5V_PW	14	PWM_DIMMING_OUT
6	B5V_PW	15	B13V_PW
7	B5V_PW	16	B5V_PW
8	GND	17	B13V_PW
9	GND	18	IP_DET

Power On Sequence (approximate Voltages)

1. **Standby Voltages: CN201-4 (5V)**
2. **Power On CN201-2 (0 – 3V)**
3. **Low Voltage Supplies On CN201-1,3,5,7,13,15,17 (Volts Listed on CN802)**
4. **Back Light On CN201-16 (0-3V, delayed)**
5. **Back Light Confirm CNI802- (FB1 & FB2)**
6. **Dimming Signal CN201-14 (1V–4V approx)**

To Force Backlight On without Main Board :

1. Remove Power Cord
2. Remove CN802
3. Plug Power Cord In.
4. Backlight should be on immediately.

CN401(to Function/IR)			
1	IR	6	KEY_INPUT1
2	GND	7	KEY_INPUT2
3	A3.3V_PW	8	LED_STB
4	MSCL_A5V	9	LED_CNTR
5	MSDA_A5V	10	A3.3V_PW

TROUBLESHOOTING VIDEO PROBLEMS

1. Verify Video Operation

a. **Customer Picture Test** (models available)
b. **"Display"** (If display is OK source is suspected)
C. Substitute with known good Source
(**external DVD or Signal Generator**)

2. Using Test Patterns in Service Mode

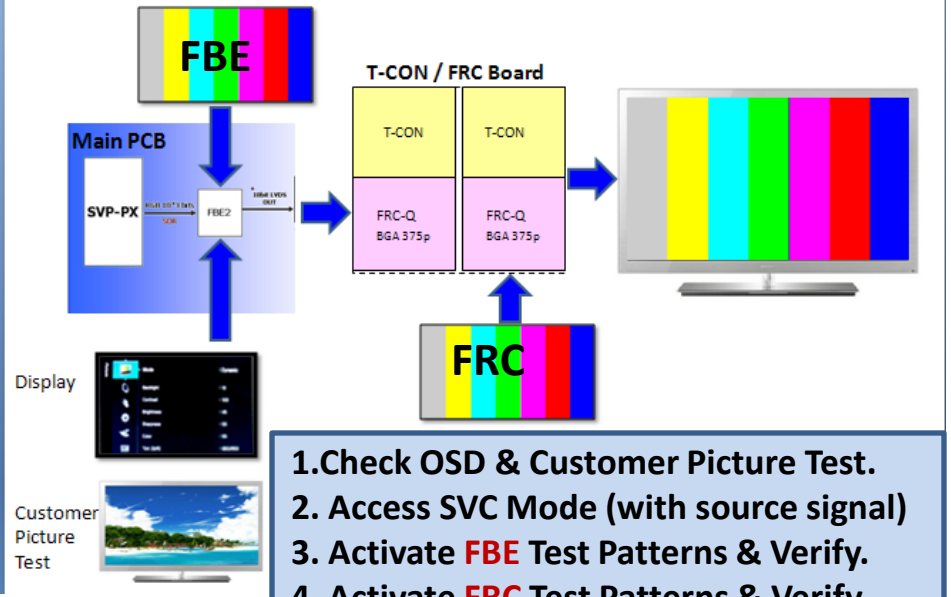
- ENTER SERVICE MODE –

1. Select an active source signal. (HDMI preferred)
Test Pattern may rely on signal source to appear.

Customer Remote	Service Remote
2. Power off	2. Power On
3. Mute, 182, Power	3. Info, Factory

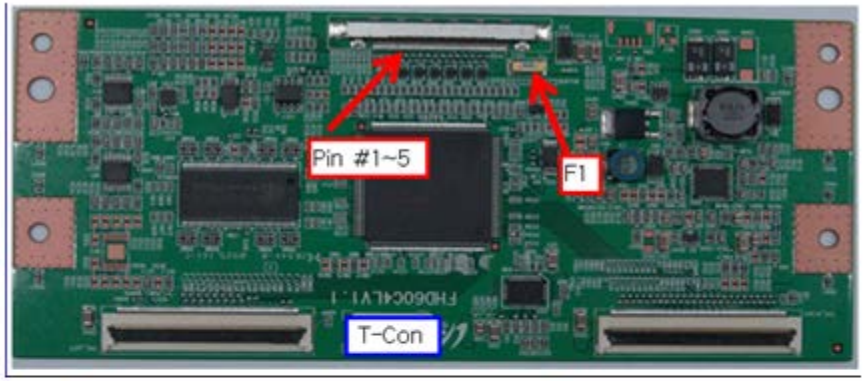
2010 Models with FRC 120Hz/240Hz

LCD Signal Path for Troubleshooting



1.Check OSD & Customer Picture Test.
2. Access SVC Mode (with source signal)
3. Activate **FBE** Test Patterns & Verify.
4. Activate **FRC** Test Patterns & Verify.

T-Con Troubleshooting

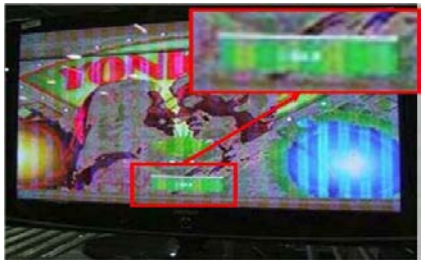


Check for 13V supply to Pins 1-5 and LVDS Side of F1 Fuse, if 13V is **NOT** present.... → NO → Check for defective LVDS Cable or 13V feed error.

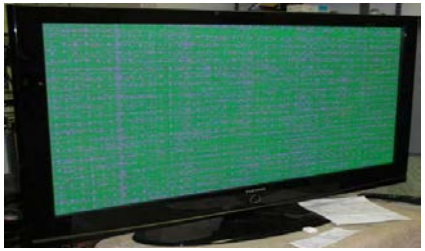
YES

if 13V IS present but NOT on both sides of F1 fuse (Open Fuse).... → NO → Change T-Con Board

ON SCREEN FAILURE EXAMPLES:



If Picture & Display errors Defective Main Board, LVDS, or T-CON

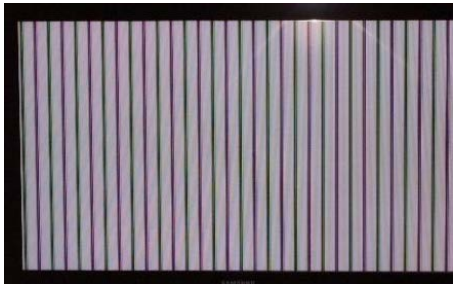


Green lines or a green screen defective main board , LVDS , or T-CON.

Original Image

Image on Screen

Pixelization can be caused by the main board but is more commonly a source error



Vertical or Horizontal Lines :Defective Panel likely but also T-CON, LVDS, or Main Board. Use Test Patterns in Factory Service Mode to determine error)

ALIGNMENTS:

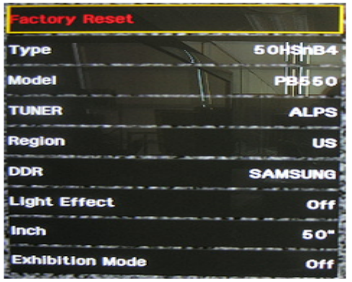
1. Check/Set Option Bytes:

Using the Customer Remote

1. Turn the power off and set to stand-by mode
2. Press the remote buttons in this order; POWER OFF-MUTE-1-8-2-POWER ON to turn the set on.
3. The set turns on and enters service mode. This may take approximately 20 seconds.
4. Press the Power button to exit and store data in memory.
   - If you fail to enter service mode, repeat steps 1 and 2 above.
5. Initial SERVICE MODE DISPLAY State

	Project	PB5G	PB5G	PB5G
	Model	B550	B550	B550
	Model Code	PN50B550T2FXZA	PN58B550T2FXZA	PN63B550T2FXZA
No.	ITEMS			
1	Factory Reset	-	-	-
2	Type	50FSpL4	58FNtK1	63FMeK1
3	Model	PB550	PB550	PB550
4	TUNER	ALPS	ALPS	ALPS
5	Region	US	US	US
6	DDR	SAMSUNG	SAMSUNG	SAMSUNG
7	Light Effect	Off	Off	Off
8	Inch	50"	58"	63"
9	Exhibition Mode	Off	Off	Off

Option Bytes



Model Code	Front Color	Type	Model	Tuner	Region	Side Label
LN37C550J1FXZA	T-R-BLK	37L6AF0C	LC550	Semco	US	AA02

2. Check/Perform Firmware Upgrade for all repairs.

3. Perform reset in Service Mode & Plug and Play if Main board is replaced.

SPECIAL NOTES:

Inform customer of reset of all Settings if Main Board or Panel is replaced.